



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

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COURSE BROCHURE

Soldering Techniques for Thru-Hole and SMT

Physical, Mathematical, Computer and Life Sciences / Information Technology and Computer Sciences

Unit Standard 259138 · NQF Level 4 · 10 Credits · 7 Days

COURSE OVERVIEW

This course equips learners with the practical skills and theoretical knowledge required to apply soldering techniques for both thru-hole and surface mount technology (SMT) components. Participants will gain hands-on experience in preparing, soldering, and inspecting electronic assemblies to industry standards, ensuring reliable and safe electronic connections.

Category	Physical, Mathematical, Computer and Life Sciences
Subfield	Information Technology and Computer Sciences
Unit Standard	259138
Accreditation	SAQA Accredited · NQF Level 4 · 10 Credits
Duration	7 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply safe work practices and identify hazards associated with soldering operations.
- Demonstrate correct setup and use of soldering equipment for thru-hole and SMT components.
- Perform through-hole soldering techniques to achieve reliable joints on printed circuit boards.
- Execute surface mount soldering techniques, including hand soldering and rework of SMT components.
- Inspect and evaluate solder joints against industry-acceptable criteria using visual and mechanical methods.
- Implement rework and desoldering procedures for correcting defective joints or replacing components.

WHO SHOULD ATTEND

- This course is designed for technicians, electronic engineers, and hobbyists who need to develop or refine their soldering skills for assembling and repairing electronic circuits.
- It is also suitable for individuals entering the electronics manufacturing or maintenance field.

ASSESSMENT & CERTIFICATION

Delegates are assessed through exercises and a final test. A mark of **50% or above** earns an **AATICD Certificate of Completion**, issued digitally with a unique verification code. This course carries **10 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 28,200.00	R 28,200.00
1	In-House	R 36,700.00	R 36,700.00
1	On-Campus (Pretoria)	R 42,300.00	R 42,300.00

UPCOMING SESSIONS

No sessions are currently scheduled. Please contact us to arrange a session at a time and location that suits your team.

HOW TO GET A QUOTE OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard 259138) and click **Get A Quote / Apply**. Select your training method and number of delegates – your quotation is generated immediately and emailed to you with the course brochure attached.
2. **Apply by email:** send the course title, your preferred training method (Online, In-House or On-Campus Pretoria), the number of delegates and your preferred dates to apply@aaticd.co.za – our team will reply with a formal quotation.
3. **Apply by phone or WhatsApp:** call **+27 12 004 8389** or WhatsApp **+27 65 077 6310** and we will prepare your quotation and reserve your seats.
4. **Confirm your booking:** accept the quotation and settle the invoice. As soon as payment is confirmed your delegates are enrolled and receive their AATICD LMS login details by email, along with joining instructions for their chosen training method.

Group discounts apply automatically – the more delegates you enrol, the lower the price per delegate. No payment is required to request a quotation.

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